

# EXHIBIT A

# Chromosomal integration of large designer DNA into *E. Coli*

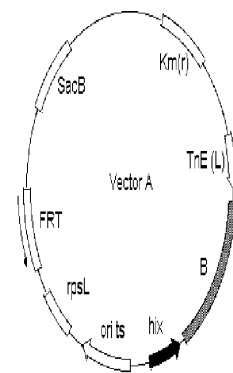


**Figure 1. Components for DNA Integration**

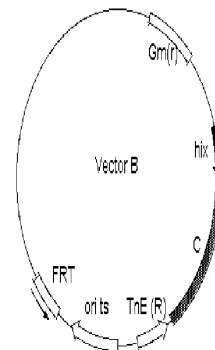
Receptor Strain



Vector A



Vector B



**Integration/Excision:**

Hix/hin

FRT/Flp

Tn1514- TnE(R/L)

**Counter-selection:**

rpsL streptomycin

sensitivity

SacB sucrose sensitivity

**Antibiotic Selection:**

Km kanamycin resistance

Tp trimethopim resistance

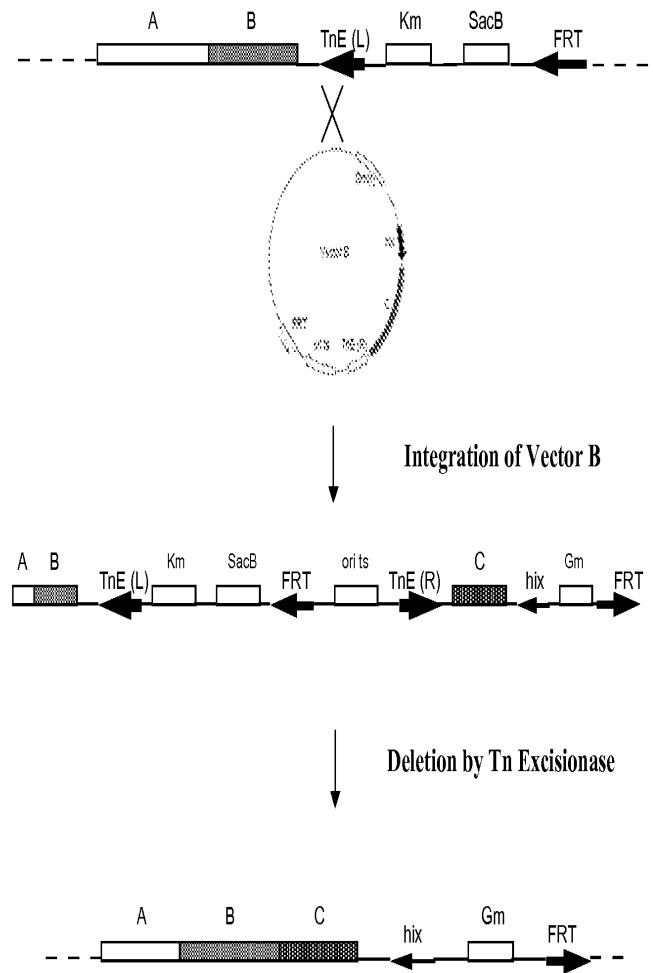
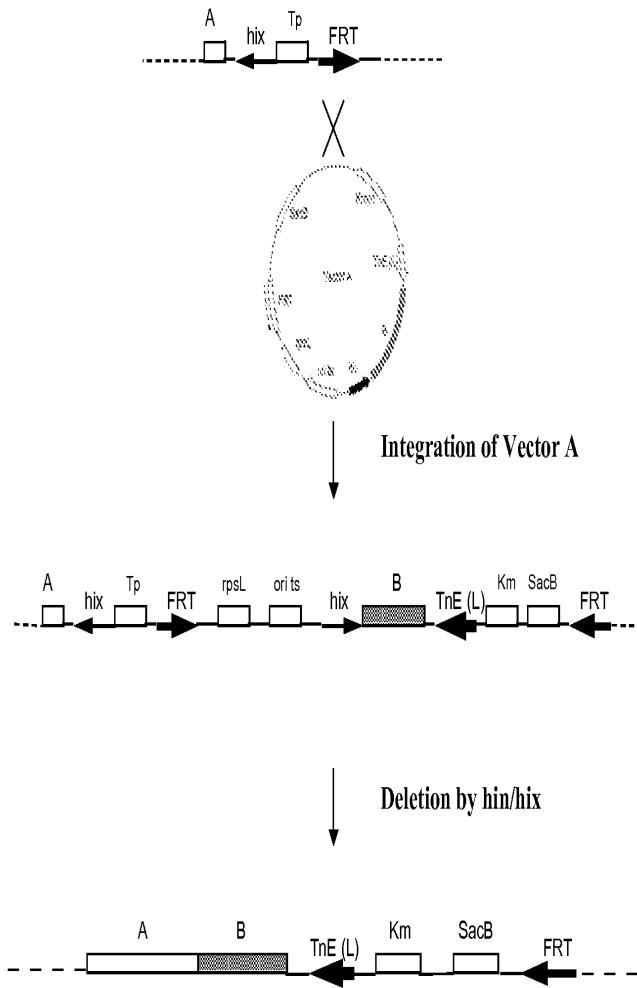
Gm gentamycin resistance

**Plasmid loss selection:**

ori ts temperature sensitive

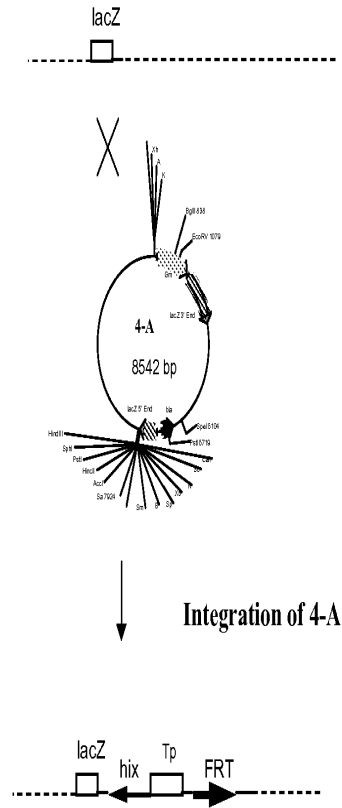
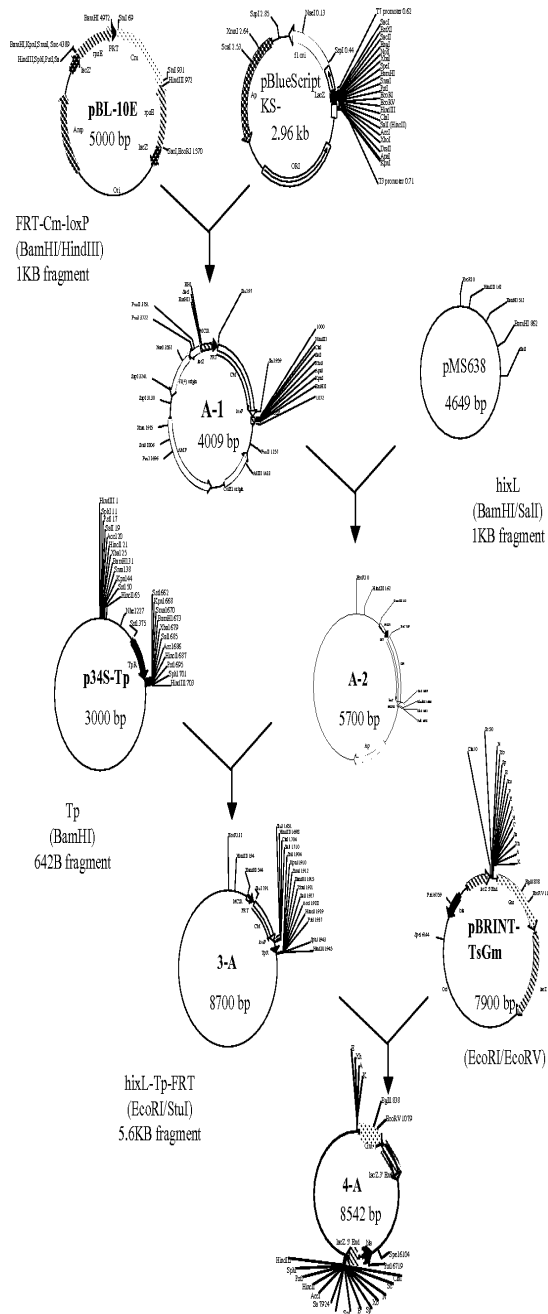
replicon

### Figure 2. Integration and Excision Scheme

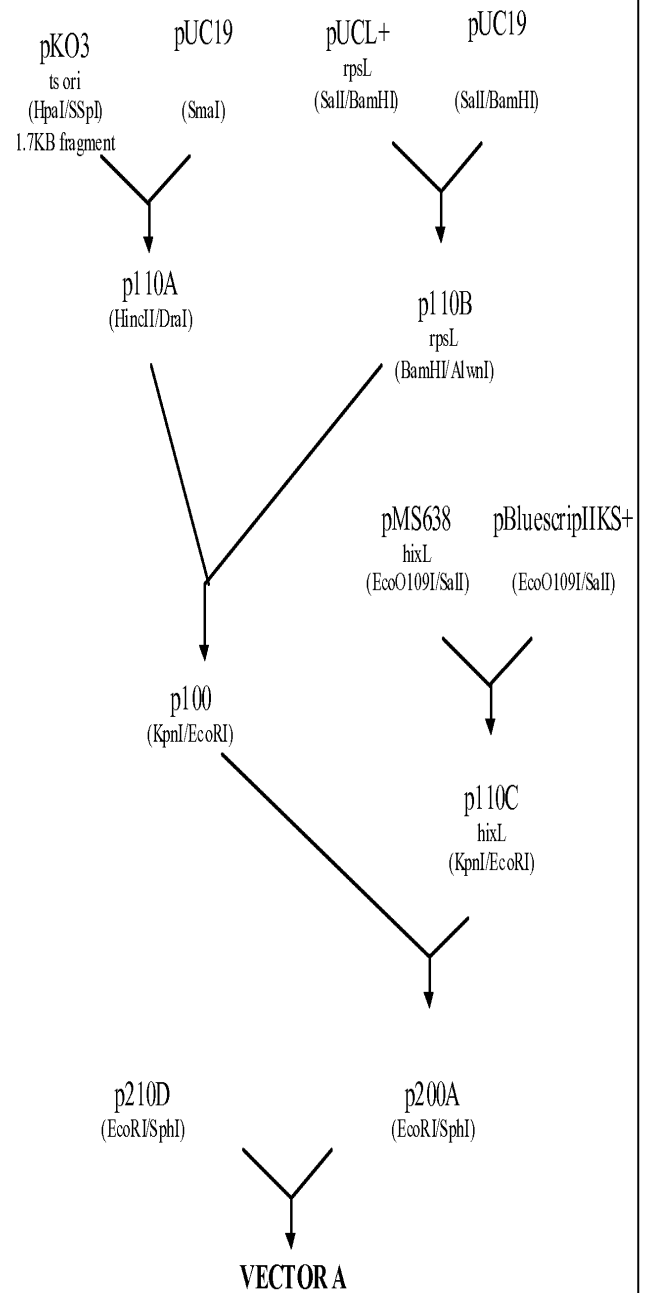
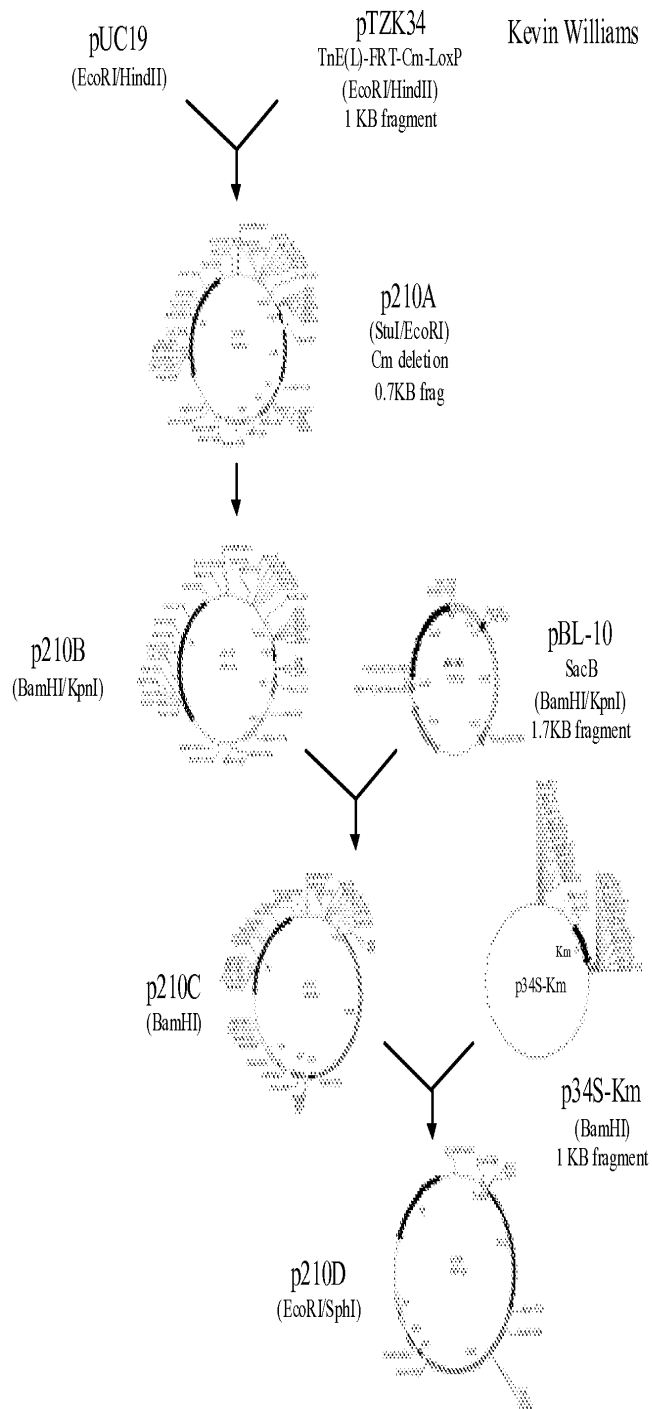


# Figure 3. Construction of Receptor Strain

Susy McKay



**Figure 4. Construction of Vector A**



**Figure 5. Construction of Vector B**

